

Amendments to Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (currently amended) A transgenic oilseed plant that produces mature seeds in which the total seed fatty acid profile comprises at least 1.0 % of at least one polyunsaturated fatty acid having at least twenty carbon atoms and five or more carbon-carbon double bonds.

Claims 2-10. (cancelled)

Claim 11. (currently amended) The oilseed plant of Claims 1-10 Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid.

Claim 12. (currently amended) The oilseed plant of Claims 1-10 Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claims 13-15. (cancelled)

Claim 16. (currently amended) Seeds obtained from the plant of any of Claims 1-10 Claim 1.

Claim 17. (currently amended I) Seeds obtained from the plant of any of Claims 1-10 Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid.

Claim 18. (currently amended) Seeds obtained from the plant of any of Claims 1-10 Claim 1 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claims 19-20 (cancelled)

Claim 21. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims 10 1, 11 or 12.

Claim 22. (withdrawn) Oil obtained from the seeds of the plants of any of Claims 1-10 1, 11 or 12 wherein the polyunsaturated fatty acid an omega-3 fatty acid.

Claim 23. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims 1-10 1, 11 or 12 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claim 24. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims 1-10 1, 11 or 12 wherein the polyunsaturated fatty acid is an omega-3 fatty acid and the total seed fatty acid profile further comprises less than 2.0% arachidonic acid.

Claim 25. (withdrawn and currently amended) Oil obtained from the seeds of the plants of any of Claims 1-10 1, 11 or 12 wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA, and the total seed fatty acid profile further comprises less than 2.0% arachidonic acid.

Claim 26. (currently amended) The plant of any of Claims 1-10 Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower.

Claim 27. (currently amended) The plant of any of Claims 1-10 Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower, and further wherein the polyunsaturated fatty acid is an omega-3 fatty acid.

Claim 28. (currently amended) The plant of any of Claims 1-10 Claim 1 wherein the oilseed plant is selected from the group consisting of soybean, Brassica species, sunflower, maize, cotton, flax, and safflower, and further wherein the polyunsaturated fatty acid is an omega-3 fatty acid selected from the group consisting of EPA, DPA, and DHA.

Claims 29-139. (cancelled)

Claim 140. (new) A by-product obtained from the processing of the seeds obtained from a plant of any of claims 1, 11, or 12.